

CDP-68/207ESD/750

SERVICE MANUAL



PHOTO: CDP-750

US Model
CDP-68

US Model
CDP-207ESD

US Model
Canadian Model
AEP Model
UK Model
E Model
CDP-750

SPECIFICATIONS

Compact disc player

System	Compact disc player
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
Laser output	Max. 0.4 mW * This output is the value measured at a distance of about 1.6 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	2 Hz - 20 kHz ($\pm 0.5 \text{ dB}$)
Signal to noise ratio	More than 102 dB
Dynamic range	More than 95 dB
Harmonic distortion	Less than 0.003% (at 1 kHz)
Channel separation	More than 95 dB
Wow and flutter	Below measurable limit ($\pm 0.001\%$ WPEAK)

Outputs

	Type	Output level	Load impedance
LINE OUT	Phono jack	2 V (50 kilohms)	more than 10 kilohms
HEADPHONES	Stereo jack	6.6 mW (32 ohms)	—
DIGITAL OUT (CDP-207ESD/ 750: AEP, UK models only)	Phono jack	0.5 Vp-p (75 ohms)	75 ohms

General

Power requirements

US, Canadian Model	120V AC, 60Hz
AEP Model	220V AC, 50/60Hz
UK Model	240V AC, 50/60Hz
E Model	110-120, 220-240V AC, 50/60Hz

Power consumption

12W

Dimensions Approx. 430 x 100 x 340 mm (w/h/d)
(17 x 4 x 13½ inches)

Weight including projecting parts and controls
Approx. 4.7kg (10 lbs 6 oz), net

Remote commander (supplied) RM-D450

Remote control system

Infrared control

Power requirements

3 V DC with two R6 batteries (size AA)

Dimensions 62 x 20 x 168.5 mm (w/h/d)
(2½ x 1¾ x 6¾ inches)

Weight 130 g (5 oz)
including batteries

Supplied accessories

Connecting cord (2 phono plugs ↔ 2 phono plugs)	1
Remote commander	1
R6 batteries	2




COMPACT DISC PLAYER
SONY®



FEATURES


- PROGRAM play for playing up to 20 selections in a desired order
- SHUFFLE play for playing the selections in a random order
- REPEAT function for a single selection, the whole disc, PROGRAM play, or SHUFFLE play. Or for a particular portion of a selection.
- Easy-to-read display window shows the track number being played, elapsed playing time, and the remaining time, and indicates the repeat play, shuffle play, auto space functions.
- Auto space function for creating a blank space of 3 seconds between each selection.
- Timer play for initiating disc play at a desired time (a commercially available timer is required).
- Index search function for quickly locating a desired part*

* Example: A movement in a symphony. Index search can be used only for discs having index numbers. Such discs have  mark.


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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

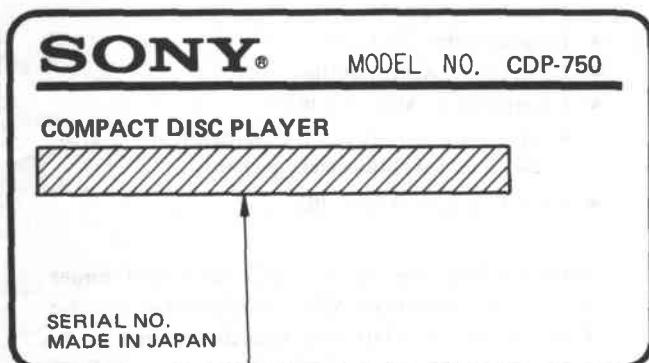
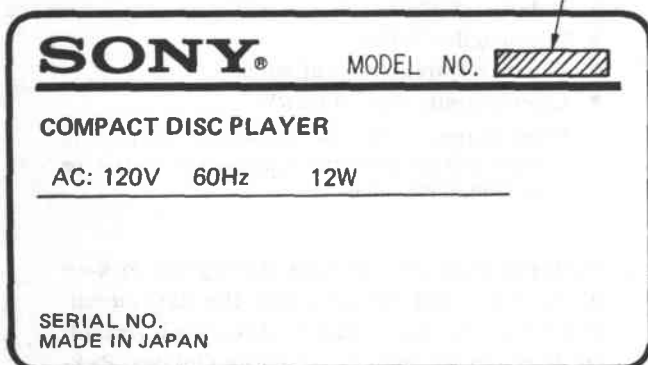
ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHEMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

— Specification Labels —

CDP-68
CDP-207ESD



US, Canadian model: AC: 120 V~60 Hz 12W
AEP model: AC: 220 V~50/60 Hz 12W
UK model: AC: 240 V~50/60 Hz 12W
E model: AC: 110-120 V, 220-240 V
~50/60 Hz 12 W

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

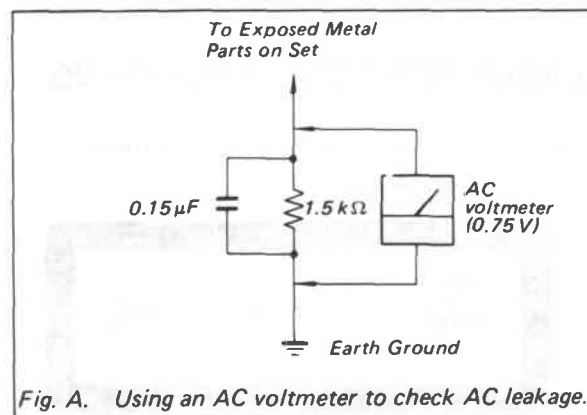


Fig. A. Using an AC voltmeter to check AC leakage.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

1. Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output: max. 44.6 μ W*

* This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optical Pick-up Block (including APC board).

BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

Følg iøvrigt instruktionerne i servicemanualen.

ADVARSEL!!

Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.

1. Laser-dioe data

- Materiale: GaAlAs
- Bølgelængde: 780 nm
- Udstråling: Kontinuerlig
- Laseroutput: Max. 0,4 mW*

* Målt i 1,6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.

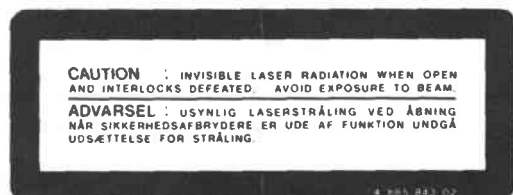
- Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laserdioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning



VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkyvätöntä) silmille vaarallista lasersäteilyä.

— SERVICING NOTE —

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25 cm away from the objective lens.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

LASER DIODE AND FOCUS SERCH OPERATION CHECK

1. Make POWER switch on with no disc inserted and disc table closed.
2. Confirm that the operation indicated in Fig. A is performed while observing the objecting lens.

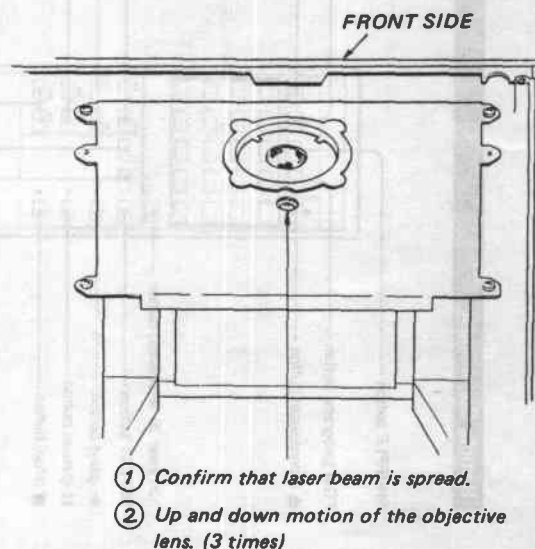
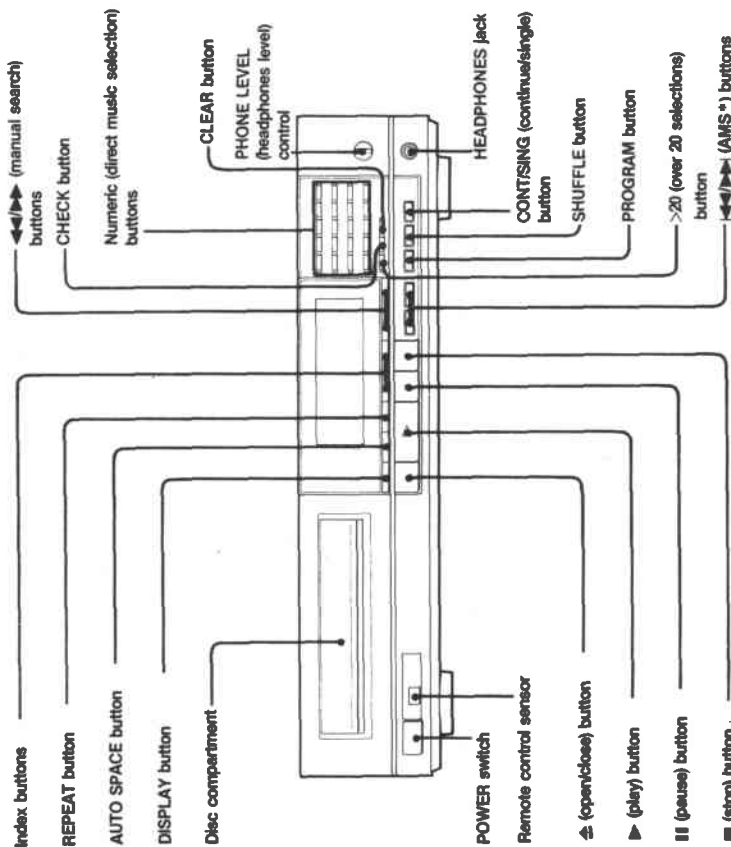


Fig. A

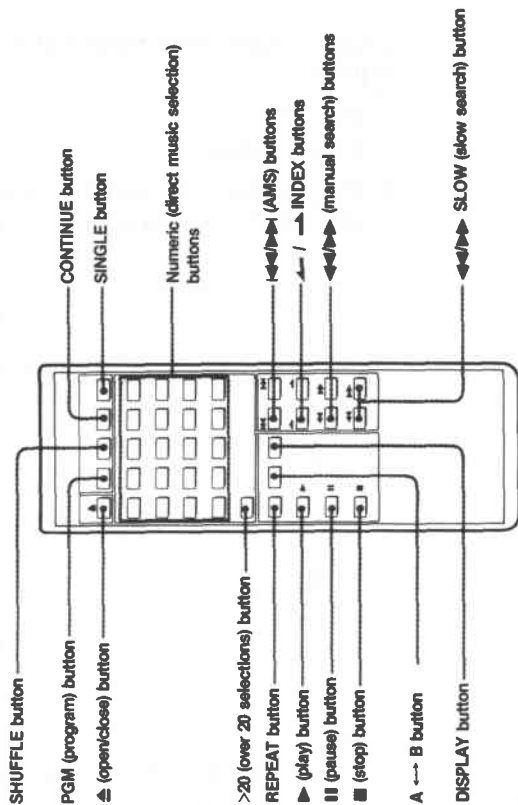
LOCATION AND FUNCTION OF CONTROLS

FRONT PANEL



* AMS is an abbreviation of Automatic Music Sensor.

Remote Commander



Remote Control Operation

Once POWER is turned on, you can remotely control various functions of the player with the supplied remote commander.

Operations which cannot be performed with the remote commander

- Turning the power on and off.
- Checking the programmed selections.
- Setting or releasing auto space function.

Notes on the remote control

- Keep the commander away from extremely hot or humid places.
- Avoid dropping any foreign objects inside the commander case, particularly when replacing batteries.
- To avoid malfunctions, do not simultaneously depress two or more buttons.
- The remote sensor should not be exposed to direct illumination, especially direct sunlight, because this may prevent picking up the signals from the remote commander.

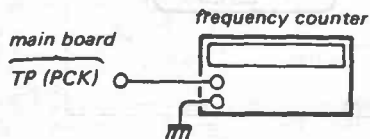
SECTION 1 ADJUSTMENTS

ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-18 (Part No.: 3-702-101-01) disc unless otherwise indicated.
3. Use the oscilloscope with more than 10 M Ω impedance.

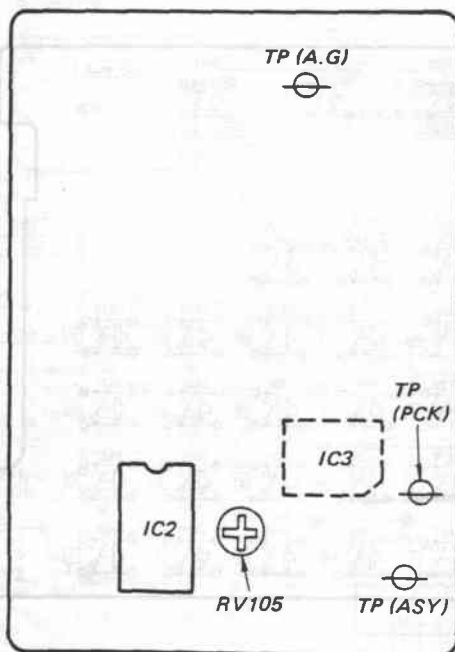
RF PLL Frequency Adjustment/Lock Frequency Check

Procedure:



1. Connect test point TP (ASY) to ground with lead wire.
2. Turn POWER switch on.
3. Connect the frequency counter to test point TP (PCK).
4. Adjust RV105 so that the reading on frequency counter is 4.3218 MHz \pm 30 kHz.
..... (RF PLL frequency adjustment)
5. Remove lead wire connecting TP (ASY) to ground.
6. Put disc (YEDS-18) in and press \triangleright button.
7. Confirm that the reading on frequency counter is 4.3218 MHz.

Adjustment Location: main board

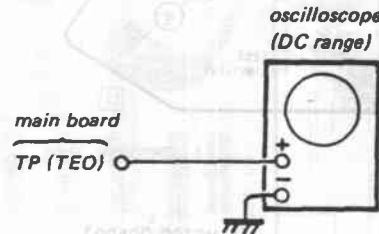


COMPONENT SIDE (FRONT)

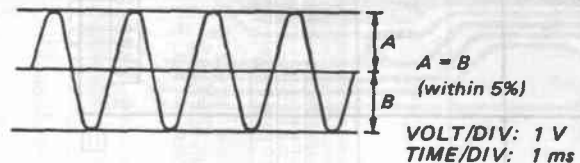
E-F Balance Adjustment

This adjustment should be made when replacing Optical pick-up Block.

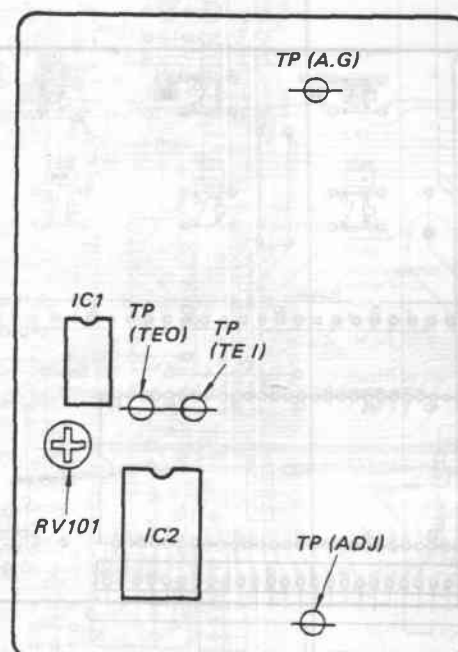
Procedure:



1. Connect test point TP (ADJ) and test point TP (TE I) to ground with lead wire.
2. Connect oscilloscope to test point TP (TEO).
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and press \triangleright button.
5. Adjust RV101 so that the traverse waveform is symmetrical above and below.
6. After adjustment, remove the lead wire connected in step 5.



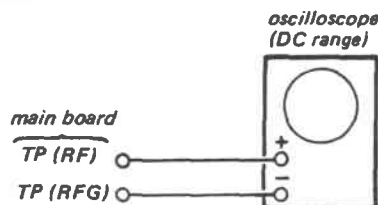
Adjustment Location: main board



COMPONENT SIDE (FRONT)

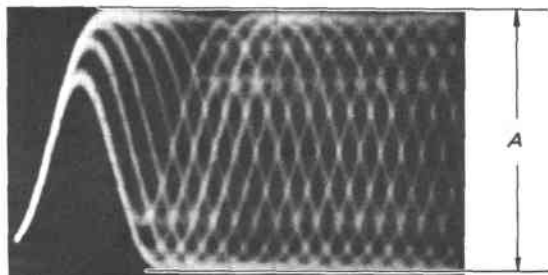
Focus Bias Adjustment

This adjustment should be made when replacing Optical pick-up Block.

Procedure:

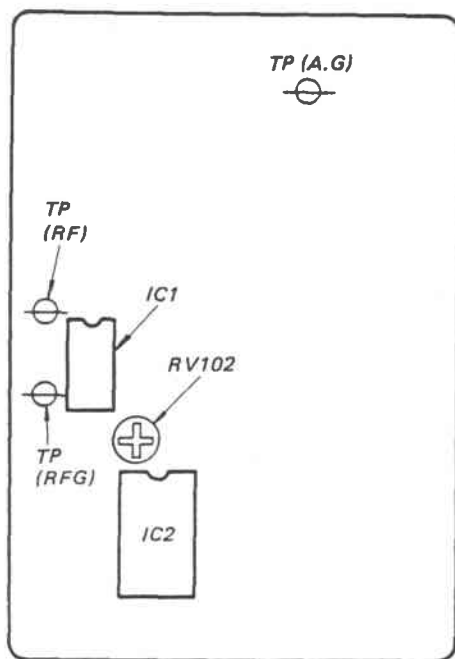
1. Connect oscilloscope to test point TP (RF) and test point TP (RFG).
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and press ▷ button.
4. Adjust RV102 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.

RF signal waveform



$$A = 1.2V \pm 0.2 (V_{p-p})$$

Adjustment Location: main board



COMPONENT SIDE (FRONT)

REFERENCE**Focus/Tracking Gain Adjustment**

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

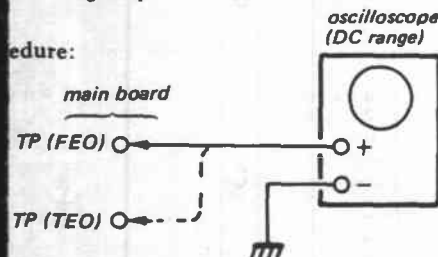
Symptoms \ Gain	Focus	Tracking
• The time until music starts becomes longer for STOP → ▷PLAY or automatic selection (◀▶ buttons pressed. (Normally takes about 2 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP → ▷PLAY or automatic selection (◀▶ buttons pressed.)	—	low
• Disc table opens shortly after STOP → ▷PLAY.	low or high	—
• Sound is interrupted during PLAY. Or time counter display stops progressing.	—	low
• More poise during 2-axis device operation.	high	high

the following is a simple adjustment method.

Simple Adjustment -

Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure:



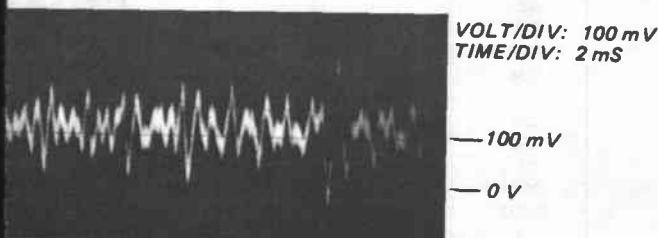
Keep the set horizontal.

If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.

Insert disc (YEDS-18: Fifth Selection) and press PLAY button.

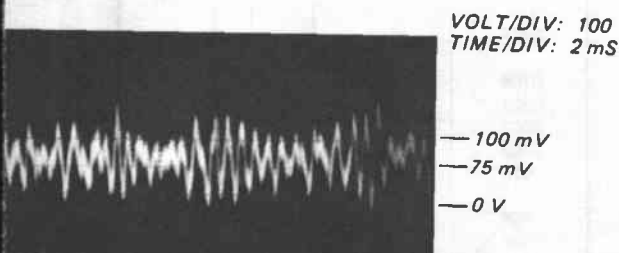
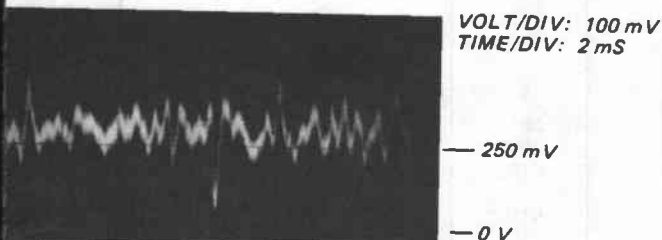
Connect oscilloscope to main amp board TP (FEO).

Adjust RV103 so that the waveform is as shown in the figure below. (focus gain adjustment)



Incorrect Examples (DC level changes more than on adjusted waveform)

low focus gain



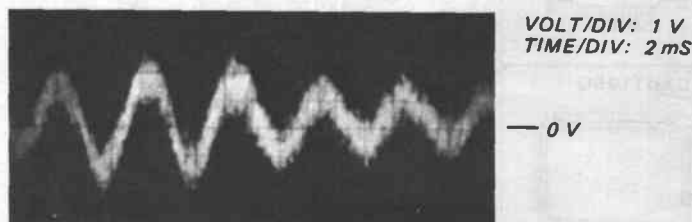
5. Connect oscilloscope to main board TP (TEO).

6. Adjust RV104 so that the waveform is as shown in the figure below. (tracking gain adjustment)



Incorrect Examples (fundamental wave appears)

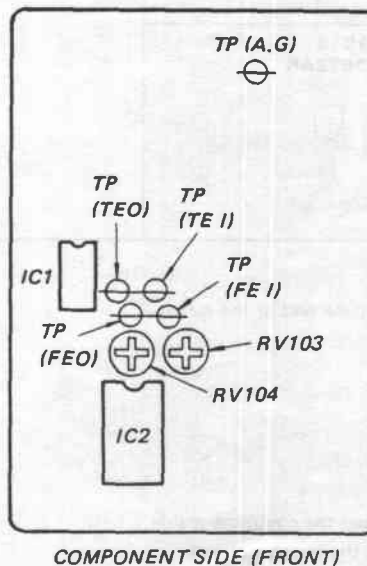
low tracking gain



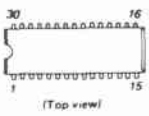


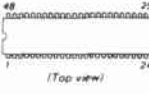


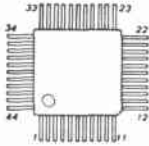
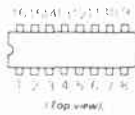


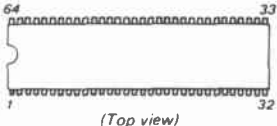

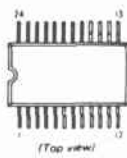
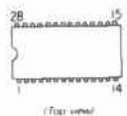
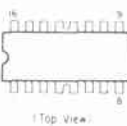



high tracking gain
(higher fundamental wave than for low gain)



Adjustment Location: main board

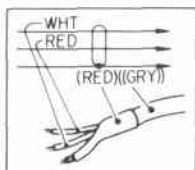


● Semiconductors Lead Layout

CXA1081S  (Top view)	M5230L-A  (Top view)	2SB1014  (Top view)
CXA1182S  (Top view)	M5231TL  (Top view)	2SB1274SA 2SD1913SA  (Top view)
CXD1088Q  (Top view)	M5290P-16 TA8406P  (Top view)	HZS9B2L RD5.1ESB  (Top view)
CXD1125Q  (Top view)	MSC6458-17SS  (Top view)	1SS132 10E2  (Top view)
CXK5816M-10L  (Top view)	TDA1541-N5  (Top view)	
LA6520  (Top view)	2SA1345 2SC3399 2SC3402 2SC3860  (Top view)	
M5218P M74HC6004P μPC4570C  (Top view)	2SB1013 2SC3622AK  (Top view)	

Note:

- Color code or sleeving over the end of the jacket.

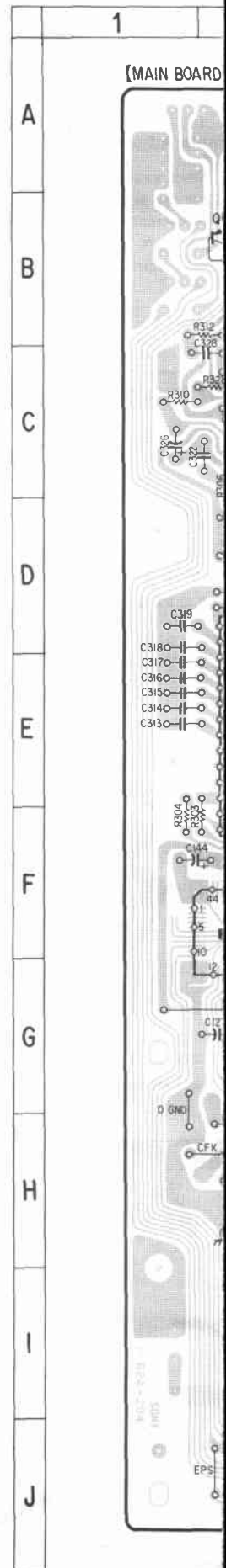


- — : parts extracted from the component side.
- : parts mounted on the conductor side.
- : indicates side identified with part number.
- — : Jumper wire connected to the ground pattern on the component side.

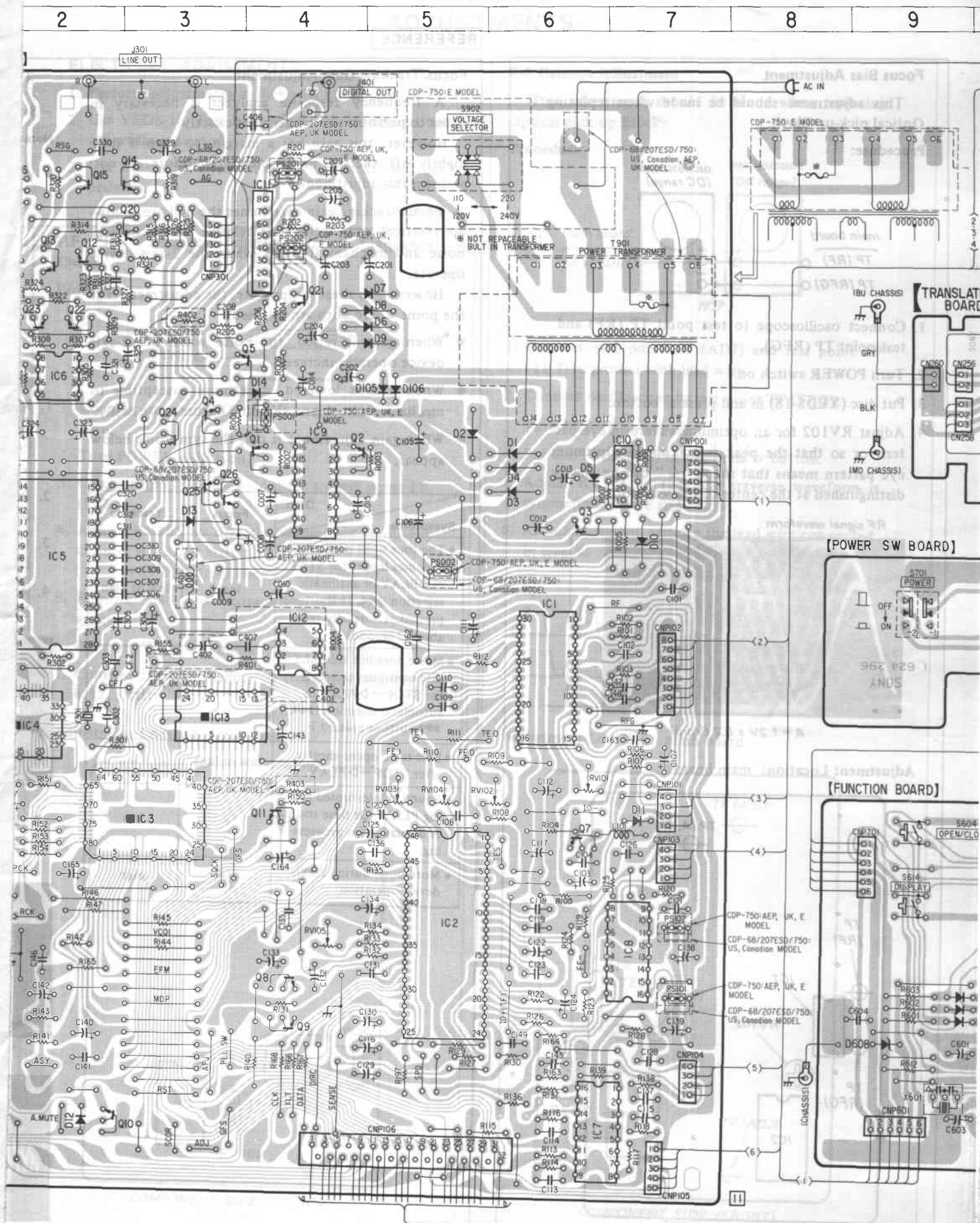
SECTION 2
DIAGRAMS

2-1. PRINTED WIRING

Ref.No.	Location
IC1	F-6
IC2	H-5
IC3	G-3
IC4	F-2
IC5	E-2
IC6	C-2
IC7	J-7
IC8	H-7
IC9	D-4
IC10	D-7
IC11	B-4
IC12	F-4
IC13	F-3
IC101	I-12
IC102	E-10
IC201	E-16
Q1	D-4
Q2	D-4
Q3	E-6
Q4	D-3
Q5	C-3
Q6	B-2
Q7	G-6
Q8	H-4
Q9	I-4
Q10	J-2
Q11	G-4
Q12	B-2
Q13	B-2
Q14	B-3
Q15	B-2
Q20	B-3
Q21	C-4
Q22	C-2
Q23	C-2
Q24	D-3
Q25	D-3
Q26	D-3
Q601	I-14
Q602	I-14
Q603	I-14
Q604	I-14
Q605	I-14
D1	D-6
D2	D-5
D3	D-6
D4	D-6
D5	D-6
D6	C-5
D7	C-5
D8	C-5
D9	C-5
D10	E-7
D11	G-7
D12	J-2
D13	E-3
D14	C-4
D105	C-5
D106	C-5
D601	I-10
D602	I-10
D603	H-10
D604	I-14
D605	I-14
D606	I-14
D607	I-14
D608	I-9



IG BOARDS • See page 18 for IC BLOCK DIAGRAMS





9

10

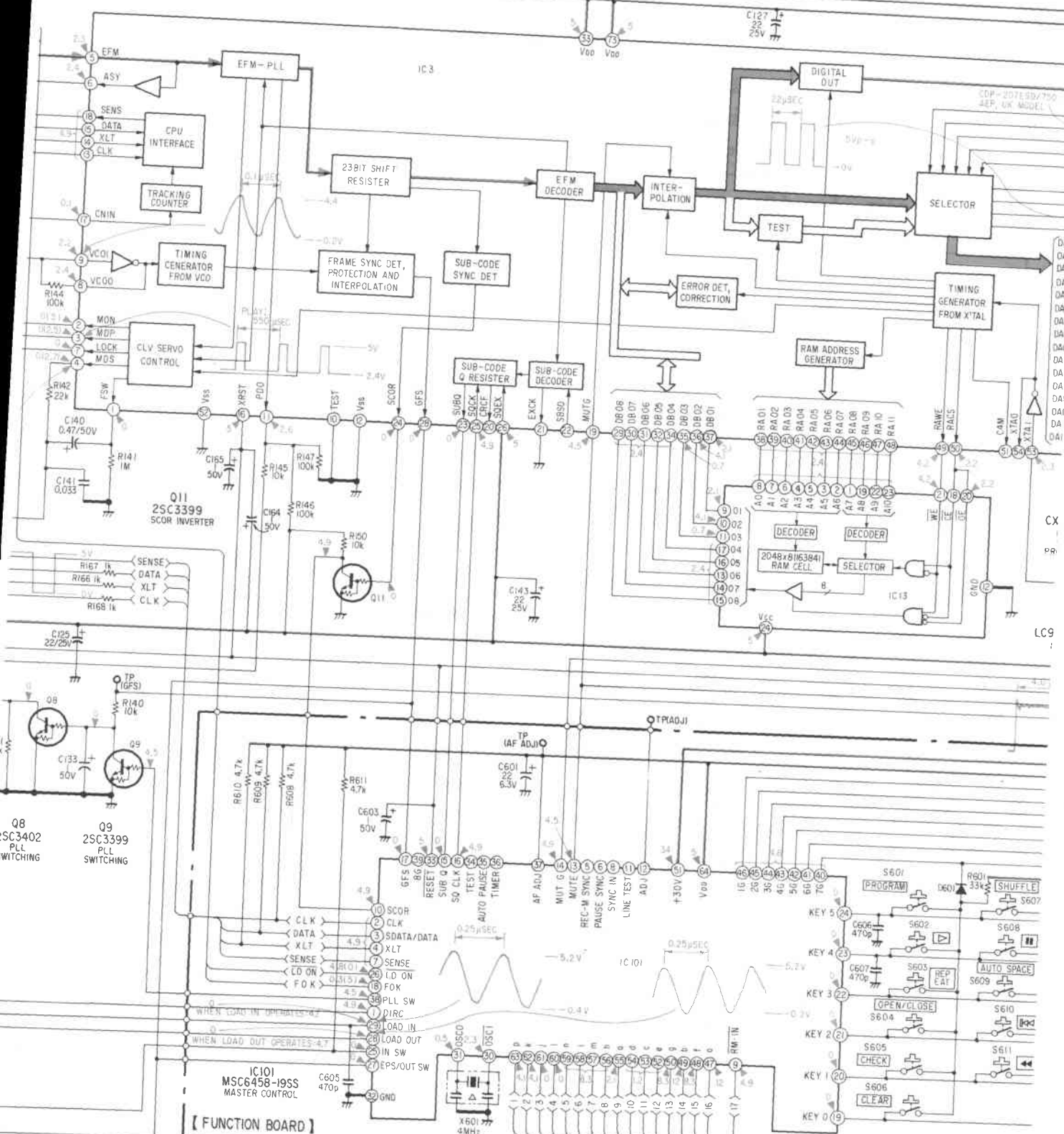
11

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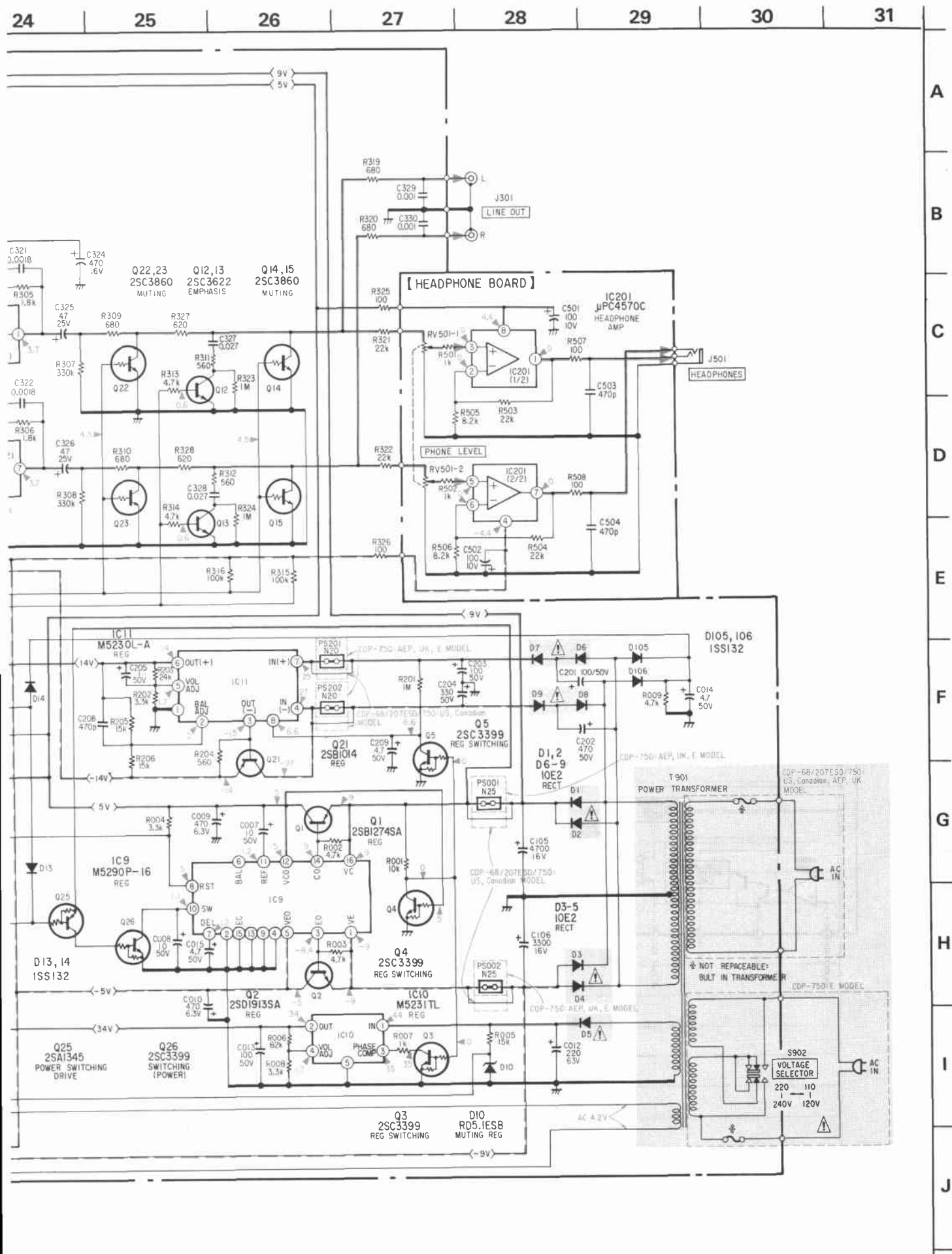
13

14

15







Note:





- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.
- \triangle : internal component.

Note: The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

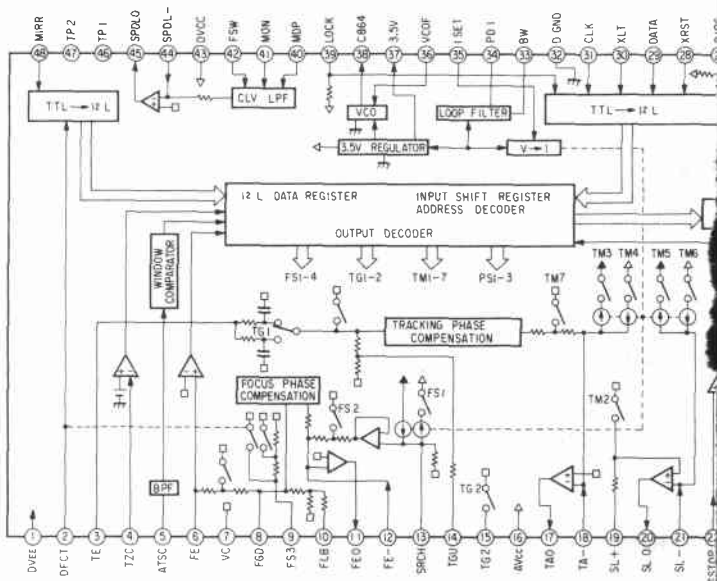
Switch

Ref. No.	Switch	Position
S251	LOADING	IN
S252	LIMIT	ON
S601-639	KEY MATRIX	
S701	POWER	OFF
S902	VOLTAGE SELECTOR	(110-120V) ↑ (220-240V)

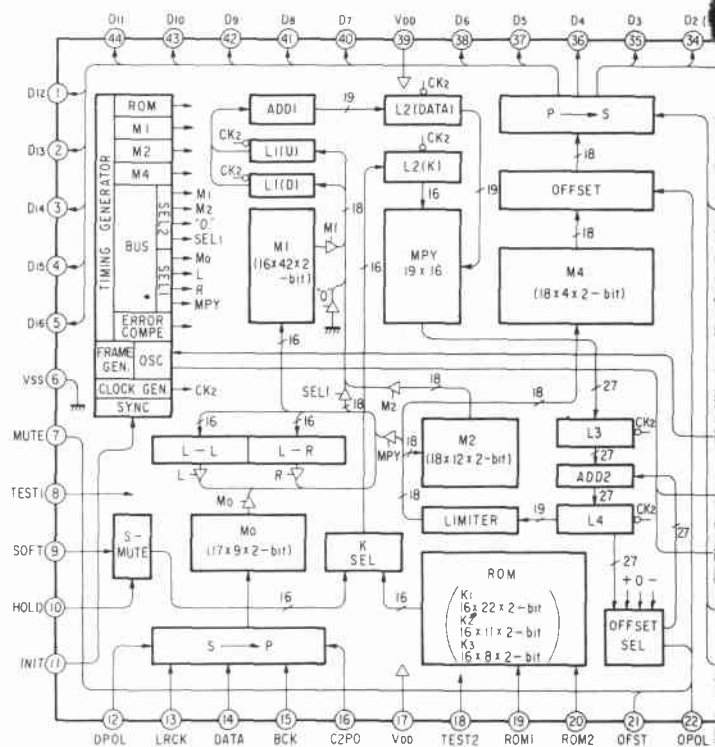
-  : B+ bus.
-  : B- bus.
-  : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark : STOP mode
() : CD Playing mode
- Voltages are taken with a VOM (50 $\text{k}\Omega/\text{V}$).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Signal path. 

• IC BLOCK DIAGRAMS

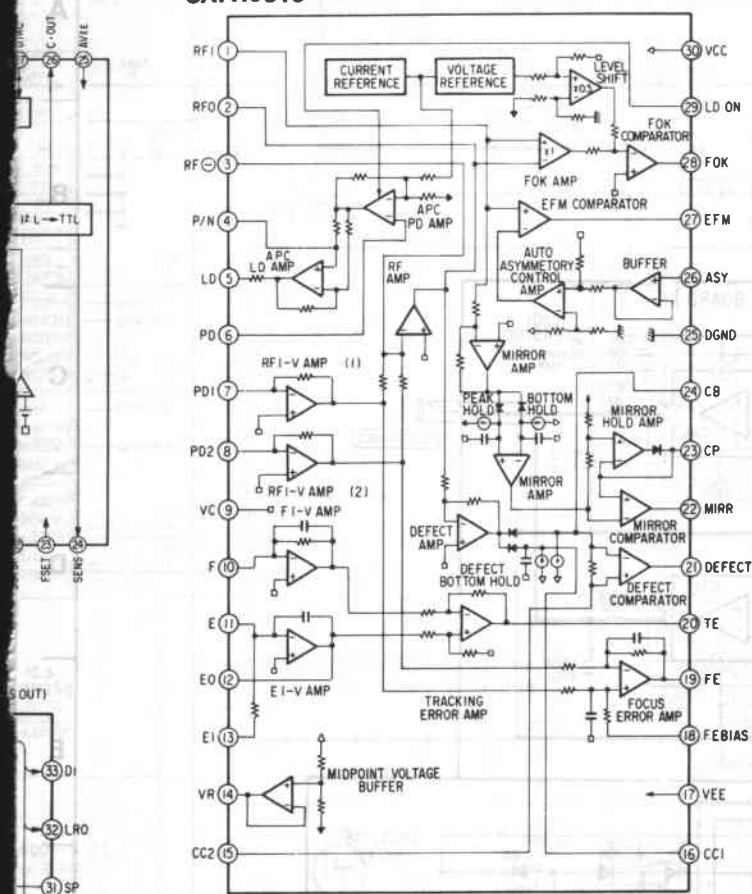
CXA1182S



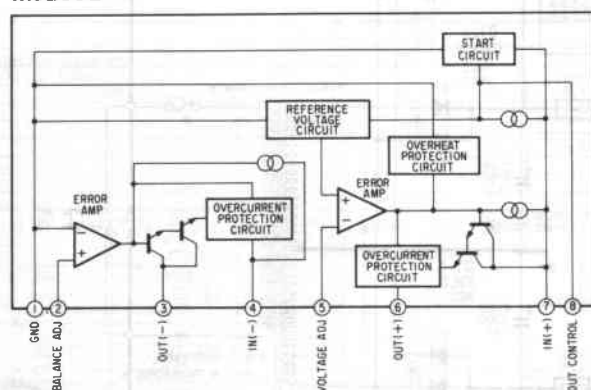
CXD1088Q



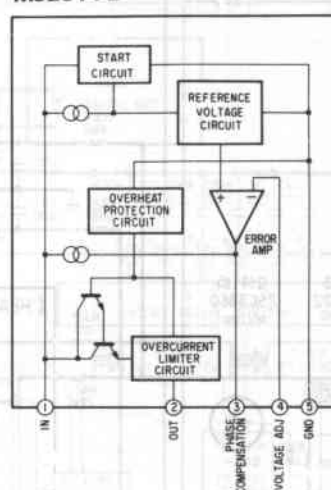
CXA1081S



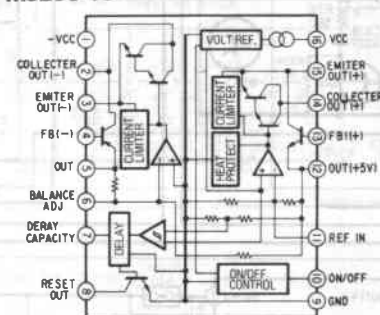
M5230L-A



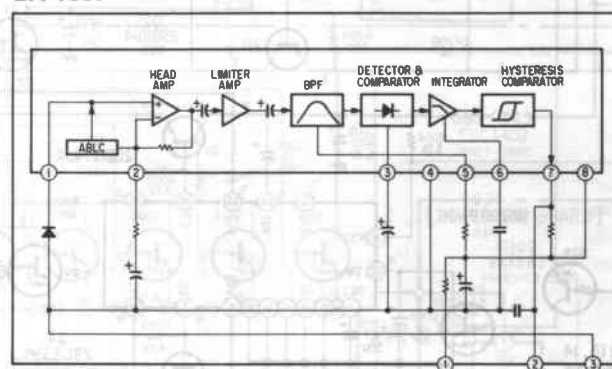
M5231TL



M5290-16



BX-1387



Description of IC101 (MSC6458)

IC101 has the following functions:

- . Digital signal output to operation key
- . Sub Q signal loading and processing
- . Fluorescent display (FLD) control
- . Servo circuit control

Pin Function

Pin No.	Pin name	I/O	Description
1	DIRC	O	Jump pulse inversion instruction during 1 track jump.
2	CLK	O	Command transfer of clock to SSP (IC2) and DSP (IC3).
3	DATA	O	Command transfer of data to SSP (IC2) and DSP (IC3).
4	XLT	O	Command transfer of latch to SSP (IC2) and DSP (IC3).
5	M-SYNC	O	Sync REC ("H" for 300msec during muting).
6	P-SYNC	O	Sync REC ("H" for 300msec when muting is off).
7	SENSE	I	SSP (IC2) and DSP (IC3) sense information.
8	SYNC ON	I	Sync REC ("L" in REC mode).
9	SIRSC	I	Remote control signal input.
10	SCOR	I	Q code read timing.
11	VL UP	O	Remote controller. "L" when volume is being increased.
12	ADJ	I	"L" in PLAY mode.
13	AMUTE	O	All muting. Output to DSP (IC3) MUTG.
14	DMUTE	O	Software muting. Output to digital filter (IC4) software.
15	SUBQ	I	Subcode data.
16	SQCLK	O	Subcode data read clock.
17	GFS	I	"H" when CLV is locked.
18	FOK	I	"H" when focus is on.
19	KEY0	I	Key matrix input, "H" active.
20	KEY1	I	Key matrix input, "H" active.
21	KEY2	I	Key matrix input, "H" active.
22	KEY3	I	Key matrix input, "H" active.
23	KEY4	I	Key matrix input, "H" active.
24	KEY5	I	Key matrix input, "H" active.
25	INSW	I	Loading IN SW.
26	LDON	O	Laser on/off.
27	EPS/OUTSW	I/O	Emphasis on/off (during loading). Loading OUT SW.
28	LODOUT	O	Loading motor control.

Pin No.	Pin name	I/O	Description
29	LODIN	O	Loading motor control.
30	OSC1	I	Oscillator input terminal (4 MHz).
31	OSC0	I	Oscillator input terminal (4 MHz).
32	GND	-	GND terminal.
33	RESET	I	Reset input terminal. Input when power is turned on.
34	TEST	-	No connection (NC).
35	VL DOWN	-	No connection (NC).
36	TIMER	-	No connection (NC).
37	AFADJ	I	"L" in PLAY mode. CLV-S is fixed. "L" in test mode before power is turned on.
38	PLLSW	O	"L" in PLAY mode and "H" in search mode.
39	8G	-	FLD timing output.
40	7G	O	FLD timing output.
41	6G	O	FLD timing output.
42	5G	O	FLD timing output.
43	4G	O	FLD timing output.
44	3G	O	FLD timing input.
45	2G	O	FLD timing input.
46	1G	O	FLD timing input.
47	a	O	FLD segment output.
48	f	O	FLD segment output.
49	b	O	FLD segment output.
50	q	O	FLD segment output.
51	+30V	-	+30V
52	e	O	FLD segment output.
53	c	O	FLD segment output.
54	d	O	FLD segment output.
55	o	O	FLD segment output.
56	h	O	FLD segment output.
57	m	O	FLD segment output.
58	i	O	FLD segment output.
59	n	O	FLD segment output.
60	l	O	FLD segment output.
61	j	O	FLD segment output.
62	k	O	FLD segment output.
63	p	O	FLD segment output.
64	VDD	-	Positive (+) power supply (5V)

SECTION 3 EXPLODED VIEWS AND PARTS LIST

NOTE:


- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.


- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

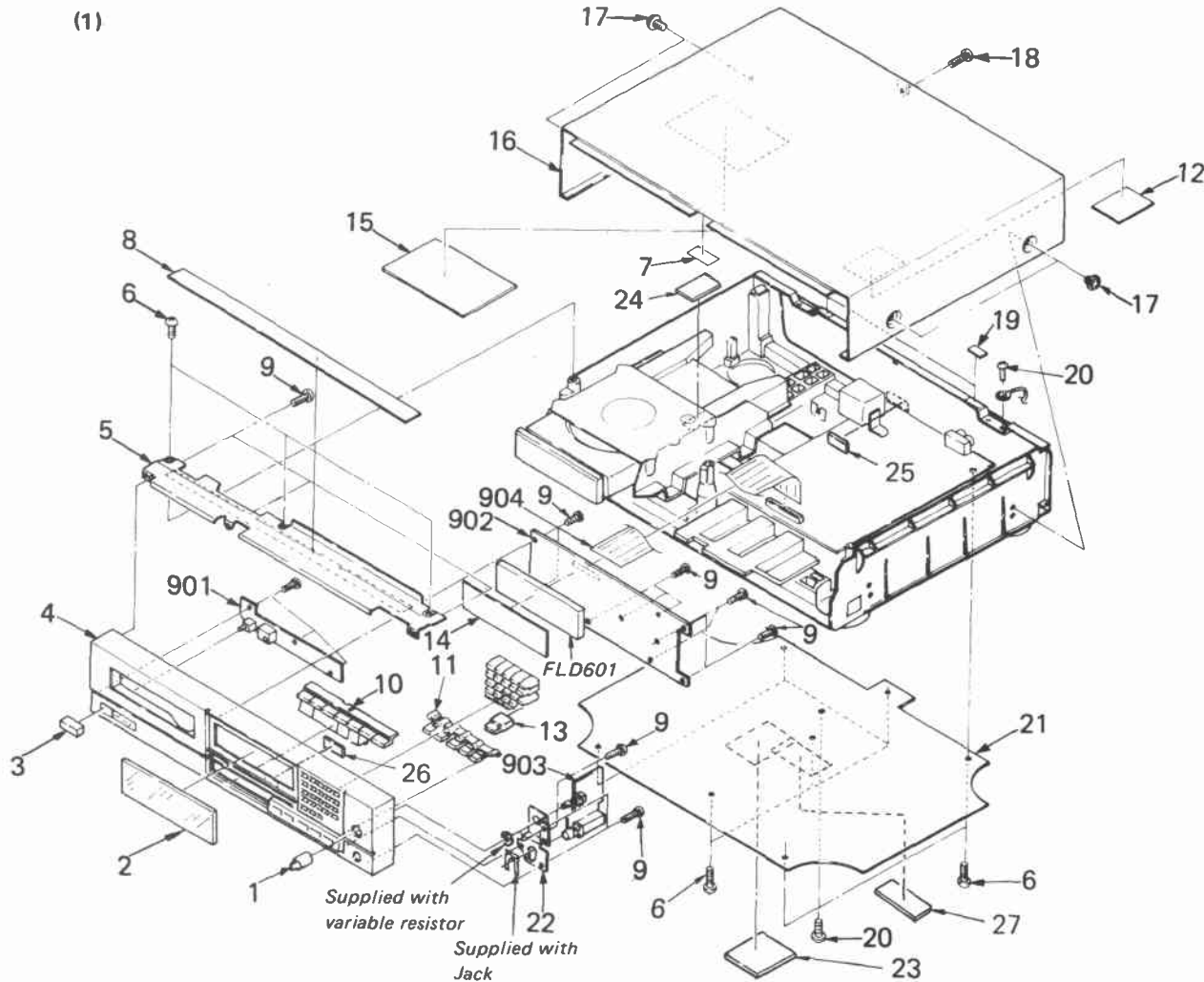
- Color Indication of Appearance Parts
Example:

(RED) ... KNOB, BALANCE (WHITE)

↑
Cabinet's Color↑
Parts' Color

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

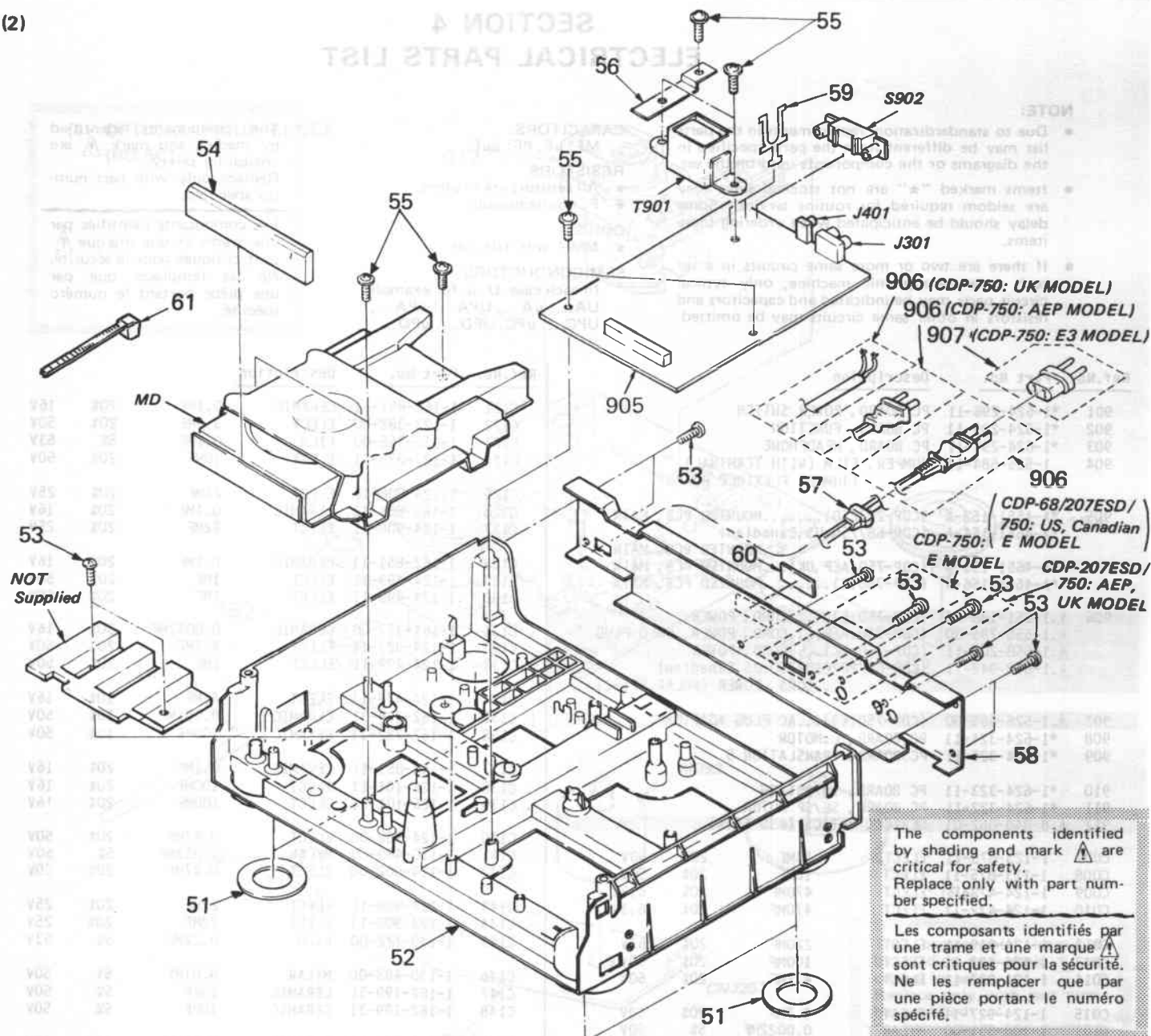
Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



No.	Part No.	Description	Remarks
1	4-917-454-01	KNOB, LOV	
2	4-922-918-01	(CDP-207ESD/750:AEP,UK)	
		...PLATE, INDICATION	
	4-922-918-31	(CDP-68/750:US,Canadian,E)	
		...PLATE, INDICATION	
3	4-922-921-01	BUTTON (POWER)	
4	X-4922-903-1	(CDP-750:US,Canadian)...PANEL ASSY, FRONT	
	X-4922-904-1	(CDP-750:AEP,UK)...PANEL ASSY, FRONT	
	X-4922-905-1	(CDP-750:E)...PANEL ASSY, FRONT	
	X-4922-906-1	(CDP-68)...PANEL ASSY, FRONT	
	X-4922-907-1	(CDP-207ESD)...PANEL ASSY, FRONT	
5	*4-922-924-01	BRACKET, PANEL	
6	7-685-647-79	SCREW +BVT 3X10 TYPE2 N-S	
7	*4-922-937-01	CUSHION	
8	*4-922-933-01	SPACER	
9	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
10	X-4922-908-1	BUTTON ASSY	
11	4-922-923-11	BUTTON (AMS)	
12	3-831-441-XX	CUSHION (T)	
13	4-922-920-01	BUTTON (M.C)	
14	*4-918-119-01	FILTER	

No.	Part No.	Description	Remarks
15	*4-917-634-01	DAMPER (C)	
16	4-912-939-01	CASE	
17	7-685-646-79	SCREW, TAPPING	
18	4-886-821-01	SCREW, M3 CASE	
19	3-568-749-00	CUSHION, ECM	
20	7-682-147-01	SCREW +BVT 3X6 (S)	
21	*4-922-927-31	PLATE, BOTTOM	
22	*4-922-914-01	BRACKET, VR	
23	3-703-680-00	(CDP-68/207ESD/750:US)	
		...LABEL, CAUTION, SUB NEW UL	
24	4-885-843-02	(CDP-750:AEP,UK,E)...LABEL, CAUTION, LASER	
25	*4-922-939-01	(CDP-750:UK)...CUSHION	
26	*4-923-565-01	SPACER	
27	3-703-079-21	(CDP-750:UK)...LABEL, CAUTION (BACK)	
901	*1-624-296-11	PC BOARD, POWER SWITCH	
902	*1-624-295-11	PC BOARD, FUNCTION	
903	*1-624-297-11	PC BOARD, HEADPHONE	
904	1-535-684-11	JUMPER, FILM (WITH TERMINAL)	
		(JUMPER FLEXIBLE BOARD)	
FLD601	1-519-411-11	INDICATOR TUBE, FLUORESCENT	

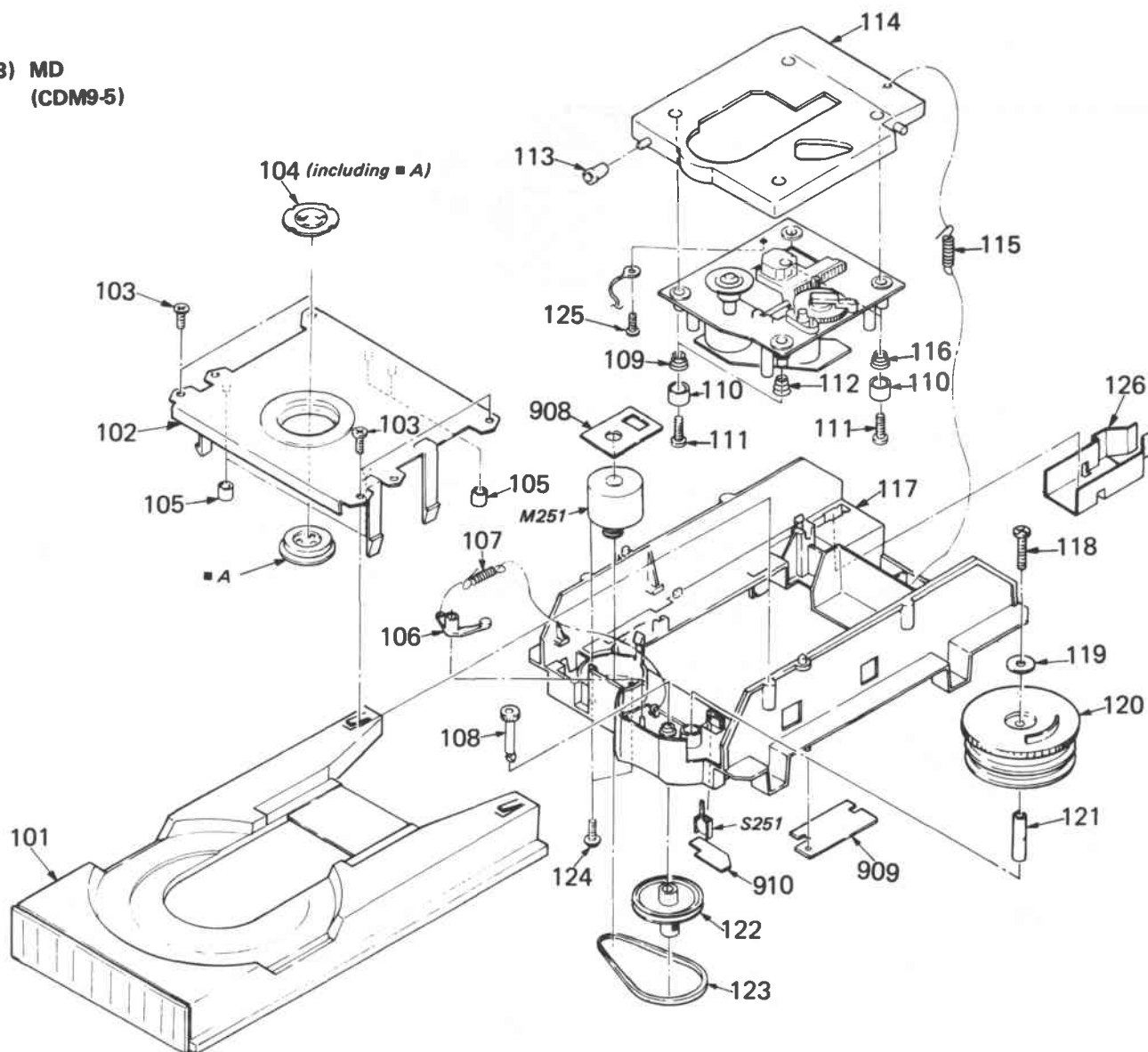
(2)



No.	Part No.	Description	Remarks
51	4-922-915-01	FOOT (FELT)	
52	*4-922-928-01	CHASSIS	
53	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
54	4-922-410-41	(CDP-750:US)...PANEL, LOADING	
	4-922-919-01	(CDP-207ESD/750:AEP,UK,Canadian,E) ...PANEL, LOADING	
	4-922-919-11	(CDP-68)...PANEL, LOADING	
55	7-685-647-79	SCREW, TAPPING	
56	*4-922-423-01	REINFORCEMENT (TRANSFORMER)	
57	Δ .3-703-244-00	(CDP-68/207ESD/750:US,Canadian,AEP,UK) ...BUSHING (2104), CORD	
	Δ .3-703-571-11	(CDP-750:E) ...BUSHING (S)(4516), CORD	
58	*4-922-501-11	(CDP-207ESD)...PANEL, BACK	
	*4-922-501-21	(CDP-750:US)...PANEL, BACK	
	*4-922-501-31	(CDP-68)...PANEL, BACK	
	*4-922-501-41	(CDP-750:Canadian)...PANEL, BACK	
	*4-922-501-51	(CDP-750:AEP)...PANEL, BACK	
	*4-922-501-61	(CDP-750:UK)...PANEL, BACK	
58	*4-922-501-71	(CDP-750:E)...PANEL, BACK	
59	*1-535-688-11	TERMINAL	
60	*4-885-838-00	(CDP-750:AEP,UK,E)...LABEL, CLASS 1	
61	3-701-748-00	(CDP-750:UK)...CLAMP	

No.	Part No.	Description	Remarks
905	*A-4651-152-A	(CDP-207ESD).....MOUNTED PCB, MAIN	
	*A-4651-154-A	(CDP-68/750:US,Canadian) ...MOUNTED PCB, MAIN	
	*A-4651-155-A	(CDP-750:AEP,UK)...MOUNTED PCB, MAIN	
	*A-4651-156-A	(CDP-750:E).....MOUNTED PCB, MAIN	
906	Δ .1-551-188-XX	(CDP-750:E)....CORD, POWER	
	Δ .1-555-795-00	(CDP-750:AEP)...CORD, POWER, EULO PLUG	
	Δ .1-558-204-11	(CDP-750:UK)....CORD, POWER	
	Δ .1-558-942-11	(CDP-68/207ESD/750:US,Canadian) ...CORD, POWER (POLAR.SPT-2)	
907	Δ .1-526-565-00	(CDP-750:E3)...AC PLUG ADAPTOR	
J301	1-566-921-11	JACK, PIN 2P (LINE OUT)	
J401	1-566-922-11	(CDP-207ESD/750:AEP,UK) ...JACK, PIN 1P (DIGITAL OUT)	
S902	Δ .1-571-009-11	(CDP-750:E) ...SWITCH	
T901	Δ .1-449-024-11	(CDP-68/207ESD/750:US,Canadian) ...TRANSFORMER, POWER	
T901	Δ .1-449-025-11	(CDP-750:AEP,UK)...TRANSFORMER, POWER	
T901	Δ .1-449-026-11	(CDP-750:E).....TRANSFORMER, POWER	

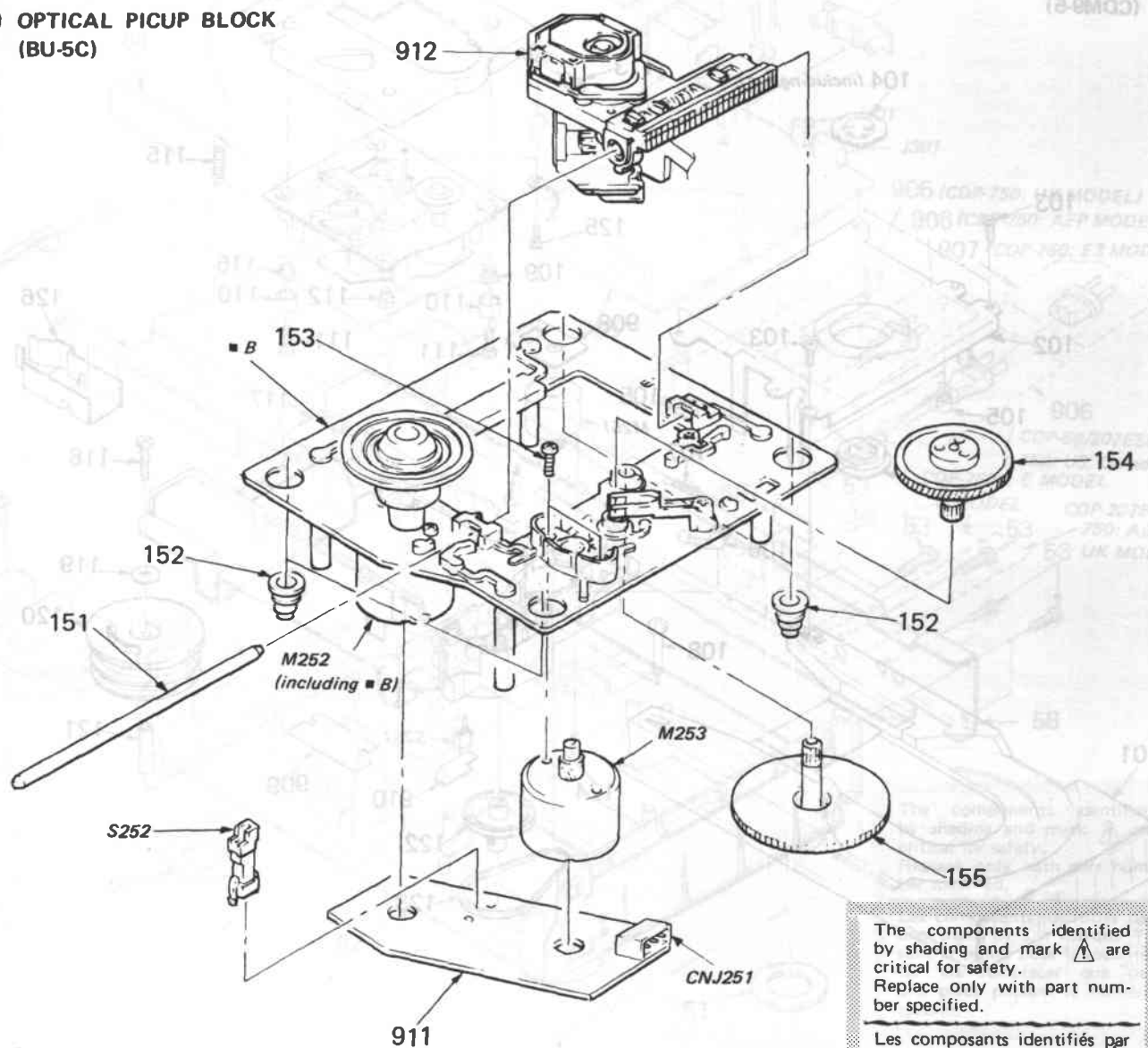
(3) MD
(CDM9-5)



No.	Part No.	Description	Remarks
101	*4-922-515-01	TABLE, DISK	
102	*4-922-510-01	REINFORCEMENT	
103	7-685-646-79	SCREW +BTP 3X8	TYPE2 N-S
104	A-4665-012-C	MAGNET ASSY	
105	*3-576-990-01	CUSHION	
106	4-917-519-01	LEVER, SET	
107	4-917-514-01	SPRING, TENSION	
108	4-922-508-01	GEAR (DRIVING)	
109	4-917-541-01	SPRING (B)	
110	4-917-508-01	HOLDER, SP	
111	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S	
112	4-918-669-01	SPRING (W)	
113	4-917-515-01	ROLLER	
114	*4-922-514-01	BRACKET (BU-5)	
115	4-917-526-01	SPRING, TENSION	

No.	Part No.	Description	Remarks
116	4-917-507-01	SPRING (H)	
117	*4-922-516-01	CHASSIS (MD)	
118	7-685-552-19	SCREW +BTP 3X25 TYPE2 N-S	
119	0-056-028-00	WASHER, PLAIN, 14 DIA.	
120	4-922-511-01	GEAR (LOADING)	
121	*4-917-523-01	COLLAR, CAM	
122	4-922-512-01	PULLEY	
123	4-917-522-01	BELT	
124	7-621-759-40	+PSW, 2.6X6	
125	7-621-770-67	SCREW +BVT 2.6X6 (S)	
126	4-923-541-11	SPRING	
908	*1-624-324-11	PC BOARD, L.MOTOR	
909	*1-624-325-11	PC BOARD, TRANSLATION 5	
910	*1-624-323-11	PC BOARD, IN/OUT SW	
M251	A-4608-346-A	MOTOR ASSY, L	
S251	1-571-300-11	SWITCH, ROTARY (LOADING IN/OUT)	

(4) OPTICAL PICKUP BLOCK
(BU-5C)



The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description
151	4-917-565-01	SHAFT, SLED
152	4-917-562-01	INSULATOR
153	7-621-255-15	SCREW +P 2X3
154	4-917-567-01	GEAR (M)
155	4-917-564-01	GEAR (P), FLATNESS

Remarks

No.	Part No.	Description	Remarks
911	*1-624-322-11	PC BOARD, SL/SP MOTOR	
912	▲8-848-062-01	DEVICE, OPTICS (KSS-150A)	
	CNJ251*1-564-720-21	PIN, CONNECTOR (SMALL TYPE) 4P	
	M252	X-4917-523-1	ASSY, MOTOR (SPINDLE)
	M253	X-4917-504-1	ASSY, MOTOR (SLED)
	S252	1-571-274-11	SWITCH, LEAF (LIMIT IN)

SECTION 4 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.


CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**


- All resistors are in ohms.
- F: nonflammable







COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:
 UA...: μ A..., UPA...: μ PA...,
 UPC...: μ PC, UPD...: μ PD...

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
901	*1-624-296-11	PC BOARD, POWER SWITCH
902	*1-624-295-11	PC BOARD, FUNCTION
903	*1-624-297-11	PC BOARD, HEADPHONE
904	1-535-684-11	JUMPER, FILM (WITH TERMINAL) (JUMPER FLEXIBLE BOARD)
905	*A-4651-152-A	(CDP-207ESD).....MOUNTED PCB, MAIN
	*A-4651-154-A	(CDP-68/750:US,Canadian) ...MOUNTED PCB, MAIN
	*A-4651-155-A	(CDP-750:AEP,UK)...MOUNTED PCB, MAIN
	*A-4651-156-A	(CDP-750:E).....MOUNTED PCB, MAIN
906	 1-551-188-XX	(CDP-750:E)....CORD, POWER
	 1-555-795-00	(CDP-750:AEP)....CORD, POWER, EULO PLUG
	 1-558-204-11	(CDP-750:UK)....CORD, POWER
	 1-558-942-11	(CDP-68/207ESD/750:US,Canadian) ...CORD, POWER (POLAR.SPT-2)
907	 1-526-565-00	(CDP-750:E3)...AC PLUG ADAPTOR
908	*1-624-324-11	PC BOARD, L.MOTOR
909	*1-624-325-11	PC BOARD, TRANSLATION 5
910	*1-624-323-11	PC BOARD, IN/OUT SW
911	*1-624-322-11	PC BOARD, SL/SP MOTOR
912	 1-8-848-062-01	DEVICE, OPTICS (KSS-150A)
C007	1-123-875-11	ELECT 10MF 20% 50V
C008	1-123-875-11	ELECT 10MF 20% 50V
C009	1-124-472-11	ELECT 470MF 20% 6.3V
C010	1-124-472-11	ELECT 470MF 20% 6.3V
C012	1-124-919-11	ELECT 220MF 20% 63V
C013	1-124-122-11	ELECT 100MF 20% 50V
C014	1-124-927-11	ELECT 4.7MF 20% 50V
C015	1-124-927-11	ELECT 4.7MF 20% 50V
C101	1-106-351-00	MYLAR 0.0022MF 5% 50V
C102	1-162-198-31	CERAMIC 8.2PF 10% 50V
C103	1-124-477-11	ELECT 47MF 20% 16V
C104	1-162-294-31	CERAMIC 0.001MF 10% 50V
C105	1-124-898-11	ELECT 4700MF 20% 16V
C106	1-124-887-00	ELECT 3300MF 20% 16V
C107	1-124-477-11	ELECT 47MF 20% 16V
C108	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C109	1-130-489-00	MYLAR 0.033MF 5% 50V
C110	1-130-483-00	MYLAR 0.01MF 5% 50V
C111	1-124-908-11	ELECT 22MF 20% 25V
C112	1-124-477-11	ELECT 47MF 20% 16V
C113	1-162-294-31	CERAMIC 0.001MF 10% 50V
C114	1-162-294-31	CERAMIC 0.001MF 10% 50V
C115	1-162-851-11	CERAMIC 0.1MF 20% 16V
C116	1-124-908-11	ELECT 22MF 20% 25V
C117	1-124-477-11	ELECT 47MF 20% 16V
C118	1-130-768-00	FILM 0.1MF 5% 63V
C119	1-130-489-00	MYLAR 0.033MF 5% 50V
C120	1-161-329-00	CERAMIC 0.0068MF 20% 16V

Ref.No.	Part No.	Description
C121	1-162-851-11	CERAMIC 0.1MF 20% 16V
C122	1-123-382-00	ELECT 3.3MF 20% 50V
C123	1-130-768-00	FILM 0.1MF 5% 63V
C124	1-123-875-11	ELECT 10MF 20% 50V
C125	1-124-908-11	ELECT 22MF 20% 25V
C126	1-162-851-11	CERAMIC 0.1MF 20% 16V
C127	1-124-908-11	ELECT 22MF 20% 25V
C128	1-162-851-11	CERAMIC 0.1MF 20% 16V
C129	1-124-499-11	ELECT 1MF 20% 50V
C130	1-124-499-11	ELECT 1MF 20% 50V
C131	1-161-377-00	CERAMIC 0.0047MF 30% 16V
C132	1-124-927-11	ELECT 4.7MF 20% 50V
C133	1-124-499-11	ELECT 1MF 20% 50V
C134	1-124-477-11	ELECT 47MF 20% 16V
C135	1-162-294-31	CERAMIC 0.001MF 10% 50V
C136	1-162-282-31	CERAMIC 100PF 10% 50V
C137	1-162-851-11	CERAMIC 0.1MF 20% 16V
C138	1-126-101-11	ELECT 100MF 20% 16V
C139	1-126-101-11	ELECT 100MF 20% 16V
C140	1-124-902-00	ELECT 0.47MF 20% 50V
C141	1-130-489-00	MYLAR 0.033MF 5% 50V
C142	1-124-902-00	ELECT 0.47MF 20% 50V
C143	1-124-908-11	ELECT 22MF 20% 25V
C144	1-124-908-11	ELECT 22MF 20% 25V
C145	1-130-772-00	FILM 0.22MF 5% 63V
C146	1-130-483-00	MYLAR 0.01MF 5% 50V
C147	1-162-199-31	CERAMIC 10PF 5% 50V
C148	1-162-199-31	CERAMIC 10PF 5% 50V
C149	1-161-379-00	CERAMIC 0.01MF 20% 16V
C162	1-162-294-31	CERAMIC 0.001MF 10% 50V
C163	1-130-489-00	MYLAR 0.033MF 5% 50V
C164	1-124-499-11	ELECT 1MF 20% 50V
C165	1-124-499-11	ELECT 1MF 20% 50V
C201	1-124-122-11	ELECT 100MF 20% 50V
C202	1-124-913-11	ELECT 470MF 20% 50V
C203	1-124-122-11	ELECT 100MF 20% 50V
C204	1-124-912-11	ELECT 330MF 20% 50V
C205	1-124-499-11	ELECT 1MF 20% 50V
C208	1-162-290-31	CERAMIC 470PF 10% 50V
C209	1-124-927-11	ELECT 4.7MF 20% 50V
C251	1-136-157-00	FILM 0.022MF 5% 50V
C252	1-106-351-00	MYLAR 0.0022MF 5% 50V
C253	1-106-351-00	MYLAR 0.0022MF 5% 50V
C302	1-162-203-31	(CDP-207ESD/750:AEP,UK) ...CERAMIC 15PF 5% 50V
C302	1-162-207-31	(CDP-68/750:US,Canadian,E) ...CERAMIC 22PF 5% 50V

Ref.No.	Part No.	Description			
C303	1-162-203-31	(CDP-207ESD/750:AEP,UK) ...CERAMIC 15PF 5%	50V		
C303	1-162-207-31	(CDP-68/750:US,Canadian,E) ...CERAMIC 22PF 5%	50V		
C304	1-124-444-00	ELECT 220MF 20%	6.3V		
C305	1-124-444-00	ELECT 220MF 20%	6.3V		
C306	1-161-494-00	CERAMIC 0.022MF	25V		
C307	1-161-494-00	CERAMIC 0.022MF	25V		
C308	1-161-494-00	CERAMIC 0.022MF	25V		
C309	1-161-494-00	CERAMIC 0.022MF	25V		
C310	1-161-494-00	CERAMIC 0.022MF	25V		
C311	1-161-494-00	CERAMIC 0.022MF	25V		
C312	1-162-851-11	CERAMIC 0.1MF 20%	16V		
C313	1-161-494-00	CERAMIC 0.022MF	25V		
C314	1-161-494-00	CERAMIC 0.022MF	25V		
C315	1-161-494-00	CERAMIC 0.022MF	25V		
C316	1-161-494-00	CERAMIC 0.022MF	25V		
C317	1-161-494-00	CERAMIC 0.022MF	25V		
C318	1-161-494-00	CERAMIC 0.022MF	25V		
C319	1-162-851-11	CERAMIC 0.1MF 20%	16V		
C320	1-162-290-31	CERAMIC 470PF 10%	50V		
C321	1-130-474-00	MYLAR 0.0018MF 5%	50V		
C322	1-130-474-00	MYLAR 0.0018MF 5%	50V		
C323	1-126-103-11	ELECT 470MF 20%	16V		
C324	1-126-103-11	ELECT 470MF 20%	16V		
C325	1-123-332-00	ELECT 47MF 20%	25V		
C326	1-123-332-00	ELECT 47MF 20%	25V		
C327	1-130-488-00	MYLAR 0.027MF 5%	50V		
C328	1-130-488-00	MYLAR 0.027MF 5%	50V		
C329	1-106-343-00	MYLAR 0.001MF 5%	50V		
C330	1-106-343-00	MYLAR 0.001MF 5%	50V		
C401	1-124-908-11	(CDP-207ESD/750:AEP,UK) ...ELECT 22MF 20%	25V		
C402	1-124-908-11	(CDP-207ESD/750:AEP,UK) ...ELECT 22MF 20%	25V		
C406	1-162-851-11	(CDP-207ESD/750:AEP,UK) ...CERAMIC 0.1MF 20%	16V		
C407	1-162-282-31	(CDP-207ESD/750:AEP,UK) ...CERAMIC 100PF 10%	50V		
C501	1-124-443-00	ELECT 100MF 20%	10V		
C502	1-124-443-00	ELECT 100MF 20%	10V		
C503	1-162-290-31	CERAMIC 470PF 10%	50V		
C504	1-162-290-31	CERAMIC 470PF 10%	50V		
C601	1-124-638-11	ELECT 22MF 20%	6.3V		
C602	1-124-638-11	ELECT 22MF 20%	6.3V		
C603	1-123-611-00	ELECT 1MF 20%	50V		
C604	1-162-851-11	CERAMIC 0.1MF 20%	16V		
C605	1-162-290-31	CERAMIC 470PF 10%	50V		
C606	1-162-290-31	CERAMIC 470PF 10%	50V		
C607	1-162-290-31	CERAMIC 470PF 10%	50V		
CN256	*1-564-336-51	PIN, CONNECTOR 2P			
CN258	*1-564-337-51	PIN, CONNECTOR 3P			
CN260	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CNJ251	*1-564-720-21	PIN, CONNECTOR (SMALL TYPE) 4P			
CNJ501	*1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CNP001	*1-564-340-00	PIN, CONNECTOR 6P			
CNP101	*1-564-706-31	PIN, CONNECTOR (SMALL TYPE) 4P			
CNP102	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			

Ref.No.	Part No.	Description			
CNP103	*1-564-706-41	PIN, CONNECTOR (SMALL TYPE) 4P			
CNP104	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CNP105	*1-564-339-61	PIN, CONNECTOR 5P			
CNP106	1-566-908-11	SOCKET, CONNECTOR 32P			
CNP301	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CNP701	*1-564-499-11	PIN, CONNECTOR 6P			
D1	△.8-719-200-02	DIODE 10E2			
D2	△.8-719-200-02	DIODE 10E2			
D3	△.8-719-200-02	DIODE 10E2			
D4	△.8-719-200-02	DIODE 10E2			
D5	△.8-719-200-02	DIODE 10E2			
D6	△.8-719-200-02	DIODE 10E2			
D7	△.8-719-200-02	DIODE 10E2			
D8	△.8-719-200-02	DIODE 10E2			
D9	△.8-719-200-02	DIODE 10E2			
D10	8-719-109-83	DIODE RD5.1ESB			
D11	8-719-940-76	DIODE 1SS132			
D12	8-719-940-76	DIODE 1SS132			
D13	8-719-940-76	DIODE 1SS132			
D14	8-719-940-76	DIODE 1SS132			
D105	8-719-940-76	DIODE 1SS132			
D106	8-719-940-76	DIODE 1SS132			
D601	8-719-940-76	DIODE 1SS132			
D602	8-719-940-76	DIODE 1SS132			
D603	8-719-940-76	DIODE 1SS132			
D604	8-719-940-76	DIODE 1SS132			
D605	8-719-940-76	DIODE 1SS132			
D606	8-719-940-76	DIODE 1SS132			
D607	8-719-940-76	DIODE 1SS132			
D608	8-719-933-57	DIODE HZS9B2L			
FLD601	1-519-411-11	INDICATOR TUBE, FLUORESCENT			
IC1	8-752-031-80	IC CXA1081S			
IC2	8-752-032-33	IC CXA1182S			
IC3	8-752-322-04	IC CXD1125Q			
IC4	8-759-939-35	IC CXD1088Q			
IC5	8-759-939-94	IC TDA1541-N5			
IC6	8-759-601-02	IC M5218P			
IC7	8-759-208-96	IC TAB406P			
IC8	8-759-805-18	IC LA6520			
IC9	8-759-630-21	IC M5290P-16			
IC10	8-759-605-43	IC M5231TL			
IC11	8-759-602-66	IC M5230L-A			
IC12	8-759-605-44	(CDP-207ESD/750:AEP,UK)..IC M74HC6004P			
IC13	8-752-320-44	IC CXK5816M-10L			
IC101	8-759-945-87	IC MSC6458-17SS			
IC102	8-741-138-70	IC BX-1387			
IC201	8-759-106-41	IC UPC4570C			
J301	1-566-921-11	JACK, PIN 2P (LINE OUT)			
J401	1-566-922-11	(CDP-207ESD/750:AEP,UK) ...JACK, PIN 1P (DIGITAL OUT)			
J501	1-563-485-21	JACK, LARGE TYPE (HEADPHONES)			
L101	1-408-563-00	INDUCTOR 10UH			
L401	*1-410-858-11	(CDP-207ESD/750:AEP,UK)INDUCTOR, SMALL TYPE			
M251	A-4608-346-A	MOTOR ASSY, L			
M252	X-4917-523-1	ASSY, MOTOR (SPINDLE)			
M253	X-4917-504-1	ASSY, MOTOR (SLED)			

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
PS001	1-532-637-00	(CDP-750:AEP,UK,E)...LINK, IC
PS002	1-532-637-00	(CDP-750:AEP,UK,E)...LINK, IC
PS101	1-532-605-00	(CDP-750:AEP,UK,E)...LINK, IC
PS102	1-532-605-00	(CDP-750:AEP,UK,E)...LINK, IC
PS201	1-532-685-00	(CDP-750:AEP,UK,E)...LINK, IC
PS202	1-532-685-00	(CDP-750:AEP,UK,E)...LINK, IC
Q1	8-729-808-72	TRANSISTOR 2SB1274SA
Q2	8-729-808-76	TRANSISTOR 2SD1913SA
Q3	8-729-806-38	TRANSISTOR 2SC3399
Q4	8-729-806-38	TRANSISTOR 2SC3399
Q5	8-729-806-38	TRANSISTOR 2SC3399
Q6	8-729-806-20	TRANSISTOR 2SA1345
Q7	8-729-801-83	TRANSISTOR 2SB1013
Q8	8-729-806-28	TRANSISTOR 2SC3402
Q9	8-729-806-38	TRANSISTOR 2SC3399
Q10	8-729-806-38	TRANSISTOR 2SC3399
Q11	8-729-806-38	TRANSISTOR 2SC3399
Q12	8-729-107-99	TRANSISTOR 2SC3622A-K
Q13	8-729-107-99	TRANSISTOR 2SC3622A-K
Q14	8-729-806-32	TRANSISTOR 2SC3860
Q15	8-729-806-32	TRANSISTOR 2SC3860
Q20	8-729-806-20	TRANSISTOR 2SA1345
Q21	8-729-802-22	TRANSISTOR 2SB1014
Q22	8-729-806-32	TRANSISTOR 2SC3860
Q23	8-729-806-32	TRANSISTOR 2SC3860
Q24	8-729-806-20	TRANSISTOR 2SA1345
Q25	8-729-806-20	TRANSISTOR 2SA1345
Q26	8-729-806-38	TRANSISTOR 2SC3399
Q601	8-729-806-28	TRANSISTOR 2SC3402
Q602	8-729-806-28	TRANSISTOR 2SC3402
Q603	8-729-806-28	TRANSISTOR 2SC3402
Q604	8-729-806-28	TRANSISTOR 2SC3402
Q605	8-729-806-28	TRANSISTOR 2SC3402
R001	1-249-429-11	CARBON 10K 5% 1/4W
R002	1-249-425-11	CARBON 4.7K 5% 1/4W
R003	1-249-425-11	CARBON 4.7K 5% 1/4W
R004	1-249-423-11	CARBON 3.3K 5% 1/4W
R005	1-249-431-11	CARBON 15K 5% 1/4W
R006	1-215-464-00	CARBON 62K 5% 1/4W
R007	1-249-417-11	CARBON 1K 5% 1/4W
R008	1-249-423-11	CARBON 3.3K 5% 1/4W
R009	1-249-425-11	CARBON 4.7K 5% 1/4W
R101	1-249-428-11	CARBON 8.2K 5% 1/4W
R102	1-215-450-00	CARBON 16K 5% 1/4W
R103	1-249-421-11	CARBON 2.2K 5% 1/4W
R104	1-214-092-00	METAL 22 1% 1/4W
R105	1-215-396-00	CARBON 91 5% 1/4W
R106	1-249-433-11	CARBON 22K 5% 1/4W
R107	1-249-417-11	CARBON 1K 5% 1/4W
R108	1-249-432-11	CARBON 18K 5% 1/4W
R109	1-249-432-11	CARBON 18K 5% 1/4W
R110	1-249-425-11	CARBON 4.7K 5% 1/4W
R111	1-249-425-11	CARBON 4.7K 5% 1/4W
R112	1-249-417-11	CARBON 1K 5% 1/4W
R113	1-215-472-00	CARBON 130K 5% 1/4W
R114	1-247-881-00	CARBON 120K 5% 1/4W
R115	1-215-472-00	CARBON 130K 5% 1/4W
R116	1-247-881-00	CARBON 120K 5% 1/4W


Ref.No.	Part No.	Description
R117	1-249-381-11	CARBON 1 5% 1/4W
R118	1-249-393-11	CARBON 10 5% 1/4W
R119	1-215-472-00	CARBON 130K 5% 1/4W
R120	1-249-393-11	CARBON 10 5% 1/4W
R122	1-249-440-11	CARBON 82K 5% 1/4W
R123	1-215-479-00	CARBON 270K 5% 1/4W
R124	1-249-435-11	CARBON 33K 5% 1/4W
R125	1-249-393-11	CARBON 10 5% 1/4W
R126	1-249-423-11	CARBON 3.3K 5% 1/4W
R127	1-249-425-11	CARBON 4.7K 5% 1/4W
R128	1-249-393-11	CARBON 10 5% 1/4W
R129	1-249-429-11	CARBON 10K 5% 1/4W
R130	1-215-486-00	CARBON 510K 5% 1/4W
R131	1-249-433-11	CARBON 22K 5% 1/4W
R132	1-249-414-11	CARBON 560 5% 1/4W
R133	1-249-441-11	CARBON 100K 5% 1/4W
R134	1-215-434-00	METAL 3.6K 1% 1/6W
R135	1-249-441-11	CARBON 100K 5% 1/4W
R136	1-249-437-11	CARBON 47K 5% 1/4W
R137	1-249-436-11	CARBON 39K 5% 1/4W
R138	1-249-393-11	CARBON 10 5% 1/4W
R139	1-249-381-11	CARBON 1 5% 1/4W
R140	1-249-429-11	CARBON 10K 5% 1/4W
R141	1-215-493-00	CARBON 1M 5% 1/4W
R142	1-249-433-11	CARBON 22K 5% 1/4W
R143	1-249-441-11	CARBON 100K 5% 1/4W
R144	1-249-441-11	CARBON 100K 5% 1/4W
R145	1-249-429-11	CARBON 10K 5% 1/4W
R146	1-215-469-00	METAL 100K 1% 1/6W
R147	1-215-469-00	METAL 100K 1% 1/6W
R150	1-249-429-11	CARBON 10K 5% 1/4W
R151	1-249-417-11	CARBON 1K 5% 1/4W
R152	1-249-417-11	CARBON 1K 5% 1/4W
R153	1-249-417-11	CARBON 1K 5% 1/4W
R154	1-249-417-11	CARBON 1K 5% 1/4W
R155	1-249-429-11	CARBON 10K 5% 1/4W
R163	1-249-438-11	CARBON 56K 5% 1/4W
R164	1-249-424-11	CARBON 3.9K 5% 1/4W
R165	1-249-429-11	CARBON 10K 5% 1/4W
R166	1-249-417-11	CARBON 1K 5% 1/4W
R167	1-249-417-11	CARBON 1K 5% 1/4W
R168	1-249-417-11	CARBON 1K 5% 1/4W
R197	1-249-417-11	CARBON 1K 5% 1/4W
R201	1-215-493-00	CARBON 1M 5% 1/4W
R202	1-249-423-11	CARBON 3.3K 5% 1/4W
R203	1-215-454-00	CARBON 24K 5% 1/4W
R204	1-249-414-11	CARBON 560 5% 1/4W
R205	1-249-431-11	CARBON 15K 5% 1/4W
R206	1-249-431-11	CARBON 15K 5% 1/4W
R301	1-249-411-11	CARBON 330 5% 1/4W
R302	1-249-417-11	CARBON 1K 5% 1/4W
R303	1-249-417-11	CARBON 1K 5% 1/4W
R304	1-249-417-11	CARBON 1K 5% 1/4W
R305	1-259-434-11	CARBON 1.8K 5% 1/6W
R306	1-259-434-11	CARBON 1.8K 5% 1/6W
R307	1-259-488-11	CARBON 330K 5% 1/6W
R308	1-259-488-11	CARBON 330K 5% 1/6W
R309	1-259-424-11	CARBON 680 5% 1/6W


Ref.No.	Part No.	Description			
R310	1-259-424-11	CARBON	680	5%	1/6W
R311	1-259-422-11	CARBON	560	5%	1/6W
R312	1-259-422-11	CARBON	560	5%	1/6W
R313	1-249-425-11	CARBON	4.7K	5%	1/4W
R314	1-249-425-11	CARBON	4.7K	5%	1/4W
R315	1-249-441-11	CARBON	100K	5%	1/4W
R316	1-249-441-11	CARBON	100K	5%	1/4W
R319	1-259-424-11	CARBON	680	5%	1/6W
R320	1-259-424-11	CARBON	680	5%	1/6W
R321	1-259-460-11	CARBON	22K	5%	1/6W
R322	1-259-460-11	CARBON	22K	5%	1/6W
R323	1-259-500-11	CARBON	1M	5%	1/6W
R324	1-259-500-11	CARBON	1M	5%	1/6W
R325	1-259-404-11	CARBON	100	5%	1/6W
R326	1-259-404-11	CARBON	100	5%	1/6W
R327	1-259-423-11	CARBON	620	5%	1/6W
R328	1-259-423-11	CARBON	620	5%	1/6W
R401	1-249-412-11	(CDP-207ESD/750:AEP,UK) ...CARBON 390	5%	1/4W	
R402	1-215-396-00	(CDP-207ESD/750:AEP,UK) ...CARBON 91	5%	1/4W	
R403	1-249-417-11	(CDP-207ESD/750:AEP,UK) ...CARBON 1K	5%	1/4W	
R501	1-259-428-11	CARBON	1K	5%	1/6W
R502	1-259-428-11	CARBON	1K	5%	1/6W
R503	1-259-460-11	CARBON	22K	5%	1/6W
R504	1-259-460-11	CARBON	22K	5%	1/6W
R505	1-259-450-11	CARBON	8.2K	5%	1/6W
R506	1-259-450-11	CARBON	8.2K	5%	1/6W
R507	1-259-404-11	CARBON	100	5%	1/6W
R508	1-259-404-11	CARBON	100	5%	1/6W
R601	1-249-435-11	CARBON	33K	5%	1/4W
R602	1-249-435-11	CARBON	33K	5%	1/4W
R603	1-249-435-11	CARBON	33K	5%	1/4W
R604	1-249-435-11	CARBON	33K	5%	1/4W
R605	1-249-435-11	CARBON	33K	5%	1/4W
R606	1-249-435-11	CARBON	33K	5%	1/4W
R607	1-249-435-11	CARBON	33K	5%	1/4W
R608	1-249-425-11	CARBON	4.7K	5%	1/4W
R609	1-249-425-11	CARBON	4.7K	5%	1/4W
R610	1-249-425-11	CARBON	4.7K	5%	1/4W
R611	1-249-425-11	CARBON	4.7K	5%	1/4W
R612	1-249-421-11	CARBON	2.2K	5%	1/4W
RV101	1-228-995-00	RES, ADJ, CARBON 22K (E-F BALANCE)			
RV102	1-228-993-00	RES, ADJ, CARBON 4.7K (FOCUS BIAS)			
RV103	1-228-995-00	RES, ADJ, CARBON 22K (FOCUS GAIN)			
RV104	1-228-995-00	RES, ADJ, CARBON 22K (TRACKING GAIN)			
RV105	1-228-990-00	RES, ADJ, METAL GLAZE 1K (RF PLL)			
RV501	1-237-789-11	RES, VAR, CARBON 20K/20K (PHONE LEVEL)			
S251	1-571-300-11	SWITCH, ROTARY (LOADING IN/OUT)			
S252	1-571-274-11	SWITCH, LEAF (LIMIT IN)			
S601	1-554-303-21	SWITCH, KEY BOARD (PROGRAM)			
S602	1-554-303-21	SWITCH, KEY BOARD (▷)			
S603	1-554-303-21	SWITCH, KEY BOARD (REPEAT)			
S604	1-554-303-21	SWITCH, KEY BOARD (OPEN/CLOSE)			
S605	1-554-303-21	SWITCH, KEY BOARD (CHECK)			
S606	1-554-303-21	SWITCH, KEY BOARD (CLEAR)			
S607	1-554-303-21	SWITCH, KEY BOARD (SHUFFLE)			
S608	1-554-303-21	SWITCH, KEY BOARD (II)			
S609	1-554-303-21	SWITCH, KEY BOARD (AUTO SPACE)			
S610	1-554-303-21	SWITCH, KEY BOARD (◀)			
S611	1-554-303-21	SWITCH, KEY BOARD (◀◀)			
S612	1-554-303-21	SWITCH, KEY BOARD (CONTINUE)			
S613	1-554-303-21	SWITCH, KEY BOARD (■)			
S614	1-554-303-21	SWITCH, KEY BOARD (DISPLAY)			

Ref.No.	Part No.	Description
S615	1-554-303-21	SWITCH, KEY BOARD (◀◀)
S616	1-554-303-21	SWITCH, KEY BOARD (▶▶)
S617	1-554-303-21	SWITCH, KEY BOARD (1)
S618	1-554-303-21	SWITCH, KEY BOARD (2)
S619	1-554-303-21	SWITCH, KEY BOARD (3)
S620	1-554-303-21	SWITCH, KEY BOARD (4)
S621	1-554-303-21	SWITCH, KEY BOARD (5)
S622	1-554-303-21	SWITCH, KEY BOARD (←)
S623	1-554-303-21	SWITCH, KEY BOARD (6)
S624	1-554-303-21	SWITCH, KEY BOARD (7)
S625	1-554-303-21	SWITCH, KEY BOARD (8)
S626	1-554-303-21	SWITCH, KEY BOARD (9)
S627	1-554-303-21	SWITCH, KEY BOARD (10)
S628	1-554-303-21	SWITCH, KEY BOARD (→)
S629	1-554-303-21	SWITCH, KEY BOARD (11)
S630	1-554-303-21	SWITCH, KEY BOARD (12)
S631	1-554-303-21	SWITCH, KEY BOARD (13)
S632	1-554-303-21	SWITCH, KEY BOARD (14)
S633	1-554-303-21	SWITCH, KEY BOARD (15)
S634	1-554-303-21	SWITCH, KEY BOARD (>20)
S635	1-554-303-21	SWITCH, KEY BOARD (16)
S636	1-554-303-21	SWITCH, KEY BOARD (17)
S637	1-554-303-21	SWITCH, KEY BOARD (18)
S638	1-554-303-21	SWITCH, KEY BOARD (19)
S639	1-554-303-21	SWITCH, KEY BOARD (20)
S701	1-571-305-11	SWITCH, PUSH (1 KEY)(POWER)
S902	△.1-571-309-11	(CDP-750:E)...SWITCH (VOLTAGE SELECTOR)
T901	△.1-449-024-11	(CDP-68/207ESD/750:US,Canadian) ...TRANSFORMER, POWER
T901	△.1-449-025-11	(CDP-750:AEP,UK)...TRANSFORMER, POWER
T901	△.1-449-026-11	(CDP-750:E).....TRANSFORMER, POWER
X301	1-567-908-11	(CDP-68/750:US,Canadian,E)VIBRATOR, CRYSTAL
X301	1-567-926-11	(CDP-207ESD/750:AEP,UK)VIBRATOR, CRYSTAL
X601	1-567-686-11	OSCILLATOR, CERAMIC (4MHz)

ACCESSORY & PACKING MATERIAL

1-463-923-11	REMOTE COMMANDER (RM-D450)
1-558-543-11	CORD, CONNECTION
3-565-234-00	(CDP-750:E)...BAG, PROTECTION
3-704-346-01	(CDP-68/207ESD/750:US,Canadian,AEP,UK) ...SHEET (STANDARD)
3-703-390-01	(CDP-68/207ESD/750:US)...INSTRUCTION
*3-795-629-11	(CDP-750:AEP).....INSTRUCTION
3-769-585-11	(CDP-750:AEP,UK,Canadian,E) ...MANUAL, INSTRUCTION
3-769-585-21	(CDP-750:US).....MANUAL, INSTRUCTION
3-769-585-41	(CDP-750:AEP).....MANUAL, INSTRUCTION
3-769-585-51	(CDP-207ESD).....MANUAL, INSTRUCTION
3-769-585-61	(CDP-68).....MANUAL, INSTRUCTION
4-922-417-01	LID, BATTERY CASE (FOR RM-D450)
*4-922-581-01	CUSHION
4-922-517-51	(CDP-750).....INDIVIDUAL CARTON
4-922-517-61	(CDP-207ESD)...INDIVIDUAL CARTON
4-922-517-71	(CDP-68).....INDIVIDUAL CARTON

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Troubleshooting

The following checks will assist in the correction of most problems which you may encounter with your unit. Before going through the check list below, first refer back to the connection and operating procedures.

Should any problem persist after you have made these checks, consult your nearest Sony service facility.

Symptom	Cause	Countermeasures
Play does not begin.	The disc is incorrectly inserted.	Insert the disc correctly.
	The disc is extremely dirty.	Clean the disc.
	The disc is inserted upside down.	Insert the disc correctly.
	The button has been pressed.	Press button again to release pause.
	Moisture condensation.	Leave the player turned on for about an hour.
No audio from one or both channels.	Incorrect connections.	Connect properly.